## DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

A-675 Revision 7 AERONCA KCA 50-C S-50-C 65-C S-65-C (L-3F) 65-CA S-65-CA

## TYPE CERTIFICATE DATA SHEET NO. A-675

Type Certificate Holder: Mr. William J. Gores

Franklin, Wisconsin 53132

## I - Model KCA, 2 PCLM, Approved April 26, 1938.

Model 50-C, 2 PCLM, Approved August 11, 1938 (Same as KCA except for wider cabin and modified engine cowling). Model S-50-C, 2 PCSM, Approved August 11, 1938 (Same as 50-C except for the landing gear).

· · · · · · · · · · · · · · · · · · ·	` `	1 66	
	KCA 2 PCLM	50-C 2 PCLM	<u>S-50-C 2 PCSM</u>
Engines	Continental A-50-1 (See	Continental A-50-1 Item 307 (a), (b), (c), (d), and	Continental A-50-1 (e))
<u>Fuel</u>	73 min. octane av. gas	73 min. octane av. gas	73 min. octane av. gas
Engine Limits (for all operations)	1900 r.p.m. (50 hp.)	1900 r.p.m. (50 hp.)	1900 r.p.m. (50 hp.)
Airspeed Limits (CAS) Level flight or climb Glide or dive	100 m.p.h. ( 87 knots) 135 m.p.h. (117 knots)	100 m.p.h. ( 87 knots) 135 m.p.h. (117 knots)	95 m.p.h. ( 82 knots) 129 m.p.h. (112 knots)
Propeller Limits  Maximum permissible diameter	81 in.	81 in.	76 in.
C.G. Range	(+13.4) to (+20.5)	(+13.4) to (+20.7)	(+14.1) to (+21.1)
Empty Weight C.G. Range		(+14.3) to (+20.5) with standard fuel tank only. (+14.3) to (+17.6) with Item 312(a) installed.  G. falls within these ranges, it is ges are not valid for non-standard.	
Maximum Weight	1150 lbs.	1150 lbs.	1253 lbs.
No. of Seats	2 (+21)	2 (+21)	2 (+21)
Maximum Baggage	40 lbs. (+45)	40 lbs. (+45)	40 lbs. (+45)
Fuel Capacity (see Item 312(a))	10 gal. (-10)	12 gal. (-10)	12 gal. (-10)
Oil Capacity	1 gal. (-21)	1 gal. (-21)	1 gal. (-21)

Page No.	1	2	3	4	5
Rev No.	7	7	7	7	7

Reformatted 7/94.

A-675 \_\_\_\_\_ Page 2

	KCA 2 PCLM	50-C 2 PC	<u>LM</u>	<u>S-50-C 2 PCSM</u>		
Control Surface Movements	Elevators 30°up; 30°down Rudder 30° right; 30° left Ailerons not available  Elevators 30°Rudder 30°Rudder 30°Ailerons not		; 30° left Ru	evators 30°up; 30°down dder 30° right; 30° left erons not available		
Serial No. Eligible	KCA-1 and up	C-1018 and	l up	C-1018 and up		
Required Equipment	Items 101(a), 102, 103, Items 101(a), 102, 104, and 105 I04, and 105  Not eligible for original certification with single		151			
II - Model 65-C, 2 PCLM, Approved June 7, 1939 (Same as 50-C except for the engine installation).  Model S-65-C, 2 PCSM, Approved June 7, 1939 (Same as 65-C except for the landing gear).  65-C 2 PCLM S-65-C 2 PCSM						
Engines	Continental A-65-1 Continental A-65-1 (See Item 307 (f), (g), and (h))					
Fuel	73 min. octane av.	gas	73 min. octane av. gas			
Engine Limits (for all operations)	2350 r.p.m. (65 hp.)		2350 r.p.m. (65 hp.)			
Airspeed Limits (CAS) Level flight or climb Glide or dive	100 m.p.h. (87 knots) 135 m.p.h. (117 knots)		95 m.p.h. (82 knots) 129 m.p.h. (112 knots)			
Propeller Limits Maximum permissible diameter	81 in.			76 in.		
C.G. Range	(+13.4) to (+20.7)	7)	(+14.1) to (+21.1)			
Empty Weight C.G. Range	(+14.3) to (+20.5) with standard fuel tank only. (+14.3) to (+17.6) with Item 312(a) installed. When the empty weight C.G. falls within t critical C.G. positions. Ranges are not valid					
Maximum Weight	1150 lbs.		1253 lbs.			
No. of Seats	2 (+21)		2 (+21)			
Maximum Baggage	40 lbs. (+45)		40 lbs. (+45)			
Fuel Capacity (see Item 312(a))	12 gal. (-10)		12 gal. (-10)			
Oil Capacity	1 gal. (-21)		1 gal. (-21)			
Control Surface Movements	Elevators 30° up; 30 Rudder 30° right; 30 Ailerons not available	o° down O° left	Elevators 30 Rudder 30 Ailerons not	° right; 30° left		
Serial No. Eligible	C-1018 and up		C-1018 and up			
Required Equipment  Items 101(a), 102, 103, 104, and 105  Not eligible for original certification with single ignition engines after August 1, 1941.						

Page 3 A-675

III - Model 65-CA (L-3F), 2 PCLM, Approved September 11, 1940 (Same as 50-C except for minor structural changes, equipment changes, and the engine installation).

Model S-65-CA, 2 PCSM, Approved November 15, 1940 (Same as 65-CA except for the landing gear).

	65-CA (L-3F) 2 PCLM	<u>S-65-CA 2 PCSM</u>		
Engines	Continental A-65-8 Continental A-65-8 (See Item 307 (f), (i), and (j))			
<u>Fuel</u>	73 min. octane av. gas	73 min. octane av. gas		
Engine Limits (for all operations)	2300 r.p.m. (65 hp.)	2300 r.p.m. (65 hp.)		
Airspeed Limits (CAS) Level flight or climb Glide or dive	100 m.p.h. ( 87 knots) 135 m.p.h. (117 knots)	95 m.p.h. ( 82 knots) 129 m.p.h. (112 knots)		
Propeller Limits Static r.p.m. at full throtle Maximum Minimum No additional tolerance permitted Diameter: Maximum Minimum	2150 2050 78 in. 70 in.	2070 1970 76 in. 74 in.		
C.G. Range	(+13.9) to (+21.2)	(+14.1) to (+21.1)		
Empty Weight C.G. Range	(+15.7) to (+20.5) with standard fuel tank only. (+15.7) to (+19.0) with Item 312(b) installed. When the empty weight C.G. falls within critical C.G. positions. Ranges are not value.			
Maximum Weight	1250 lbs.	1320lbs.		
No. of Seats	2 (+21)	2 (+21)		
Maximum Baggage	70 lbs. (+48)	70 lbs. (+48)		
Fuel Capacity (see Item 312(b))	17 gal. (-8)	17 gal. (-8)		
Oil Capacity	1 gal. (-32)	1 gal. (-32)		
Control Surface Movements	Elevators 30° up; 30° down Rudder 30° right; 30° left Ailerons not available	Elevators 30° up; 30° down Rudder 30° right; 30° left Ailerons not available		
Serial No. Eligible	C-10010 and up and all AAF Nos.	C-10010 and up		
Required Equipment	Items 101(b), 102, 103, 104, and 105 Items 103, 104, 105, and 151 Not eligible for original certification with single ignition engines after August 1, 1941.			

## Specifications Pertinent to All Models

<u>Datum</u> Wing leading edge.

Leveling MeansIncidence of No. 2 wing rib is (-1½°) when aircraft is level.Certification BasisType Certificate No. 675 (Aeronautical Bulletin 7-A)

A-675 Page 4

Producti	on Basis	August 24, 19	original certification of each ai 49, an FAA representative must materials, and conformity with aracteristics.	t perform a detailed ins	pection fo	or	
Export I	Eligibility	(no longer liste	ed on Specification Sheet)	cification Sheet)			
<u>Equipment</u>		A plus (+) or minus (-) sign preceding the weight of an item indicates net weight change when that item is installed.					
Propelle 103.	r and Propeller Accessories Propeller			KCA, 50-C, S-50-C 65-C, S-65-C	65-65 S-65	CA -CA	
103.	<ul><li>(a) Wood, fixed or adjustab</li><li>(b) Fixed pitch metal, McC</li></ul>	auley 1A90 (Mo only) with follow prottle setting - reance permitted	dels 65-C, with Items 307 (f), ying limits; Static r.p.m. at lot over 2250, not under	15 lb. (-44) 26 lb. (-44)	15 lb. 26 lb.		
Engine a	and Engine Accessories - Fuel	and Oil System	<u>S</u>				
104.	Carburetor Air Heater			4 lb. (-28)	1 lb.	(-28)	
106.	Oil Filter, Fram PB-5, Kit N			4.11 ( 10)			
	(a) Fram installation Dwg.	61538.	All except KCA	4 lb. (-19)			
	(b) Fram installation Dwg.	61540 (models v	KCA (only)	4 lb. (-31)	 4 lb.	( 10)	
307.	Engines (Continental) (Note certification with single is	- Airplanes not	eligible for original	<del></del>	4 10.	(-19)	
	(a) A-50-2: Limits for all of			+6 lb. (-23)			
	(b) A-50-3 or A-50-8: Limi			+10 lb. (-23)			
	(c) A-50-4 or A-50-7: Limit			Neglect wt. incrse			
	(d) A-50-5 or A-50-9: Limi	ts for all operation	ons - 1900 r.p.m. (50 hp)	+13 lb. (-23)			
	(e) A-50-6: Limits for all op			+16 lb. (-23)			
	(f) A-65-7 or A-65-7J: Lim		ons - 2300 r.p.m. (65 hp)	Neglect wt. incrse	-10 lb.	(??)	
	(g) A-65-3, A-65-8, or A-6.			+10 lb. (-23)			
	Limits for all operations		5 hp)	10.11 ( 00)			
	(h) A-65-6, A-65-9, A-65-6		(5 loss)	+13 lb. (-23)			
	Limits for all operations (i) A-65-8J: Limits for all o			+10 lb. (-23)	Neglect	syt inc	
	(j) A-65-9 or A-65-9J: Limit			+10 10. (-2 <i>3</i> )	+3 lb.		
312.	(a) 5 gal. aux. fuel tank (fue			10 lb. (+29)			
	(b) 8 gal. aux. fuel tank and						
	5 qt. oil sump is required with this fuel tank.						
	Placard fuel valve as follows	s: "Drain aux. ta	ank in glide or level flight after	using half of main tank	".		
320.	Revised engine mount (Dwg	g. 4-72, change E	3) to accomodate rubber	Neglect wt.change			
	bushed engine.						
325.	Oil radiator (Continental)					. (-37)	
328.	Hummer starter				+14 lb	. (+21)	
Landing	Gear and Floats						
101.	6.00-6 wheels with tires (a) (Shinn 654)			21 lb. (-1)			
	(b) (Shinn 6C5)			21 10. (-1)	23 lb	(-1)	
102.	Tail skid			Neglect weight	Neglect		
151.	Edo 60-1320 float instsallati	ion including au	xiliary fin (169 lb.)	+112 lb. (+28.6)	+106 lt		
301.	Wheels	2	• , ,	` '		` /	
	(a) 3 in. (Goodyear 3-LMB)	M) with brakes		+10 lb. (-1)			
	(b) 6.00-6 (Shinn 6C4B or		akes	+5 lb. (-1)			
	(c) 3 in. (Goodyear 3-LNBM	M)		+1 lb. (-1)			

Page 5 \_\_\_\_\_ A-675

Landina	Coor and Floots (contd.)	KCA, 50-C, S-50-C	65-CA
Landing	Gear and Floats (contd.) (d) 6.00-6 (Shinn 605HB) with brakes	65-C, S-65-C	S-65-CA
			+5 lb. (-1)
	(e) 6.00-6 (General Airmotive Corp. MBA) with brakes (requires		+7 lb. (-1)
	axle 3-180)		. 5 11 ( 1)
202	(f) 6.00-6 (Goodyear L6MBM) with brakes		+5 lb. (-1)
302.	Tires	4.11 ( 4)	
	(a) 18x8-3 with tube	+4 lb. (-1)	
202	(b) 16x7-3 with tube	Neglect wt. incrse	
303.	Tail wheel installation		
	(a) Shock cord type with 6x2.00 wheel and pneumatic tire	+1 lb. (+174)	
	(b) Leaf spring type with 6 in. wheel and solid tire	+2 lb. (+180)	+2 lb. (+180)
	(c) 6x2.00 steerable	+3 lb. (+179)	+3 lb. (+179)
	(d) Maule Model SFS-12, SS12, or SAFS-12	6 lb. (+179)	6 lb. (+179)
309.	Wheel streamliners	8 lb. (-1)	6 lb. (-1)
317.	Ski type axle struts (Dwg. 3-43 or 3-44)	Neglect wt. incrse	
318.	Seaplane fittings	Neglect wt. incrse	
321.	Parking brake installation	+1 lb. (-6)	+1 lb. (-6)
326.	Shock strut special attachment bolt (Dwg. 1-875)		Neglect weight
327.	Skis		
	(a) Washington Aircraft 1200	Use actual wt.	
	(b) Federal SA-1	Use actual wt.	
	(c) Federal SA-2	Use actual wt.	
	(d) Federal SC-1	Use actual wt.	Use actual wt.
	(e) Federal SC-2	Use actual wt.	
	(f) Marston MFS-1200	Use actual wt.	
	(g) Marston MFS-1600	Use actual wt.	
	(h) Jennings TY-2	Use actual wt.	
	(i) Richards I-B	Use actual wt.	
	(j) Graf-Shupe A	Use actual wt.	
	(k) Aero Sales and Service AS-6.00-6	Use actual wt.	
	(l) Heath 655	Use actual wt.	
	(m) Federal SA-1A	Use actual wt.	Use actual wt.
	(n) Heath 725	Use actual wt.	Use actual wt.
	(o) Jack Carr 16 (Max. 1600 lb.)	Use actual wt.	Use actual wt.
	(p) Heath 725A (Max. 1450 lb.)	Use actual wt.	Use actual wt.
	(q) Federal CA-1850-6 (Federal Instal. Dwg. 11R241)	48 lb. (0)	48 lb. (0)
	(r) Federal A-2000A (Federal Instal. Dwg. 11R241)	49 lb. (0)	49 lb. (0)
	(s) Federal A-2000 (Federal Instal. Dwg. 11R241)	41 lb. (0)	41 lb. (0)
	(t) Federal A-1850 (Federal Instal. Dwg. 11R241)	38 lb. (0)	38 lb. (0)
	(u) Federal A-1500 (Federal Instal. Dwg. 11R241)	37 lb. (0)	37 lb. (0)
	(v) Federal A-1500A (Federal Instal. Dwg. 11R241)	39 lb. (0)	39 lb. (0)
	d Equipment		
310.	Battery	Max. 20 lb. (+48)	Max 20 lb.(+48)
319.	Landing lights (Grimes ST-250) (one or two)	5 lb. ea. (+17)	5 lb. ea. (+17)
323.	Generator - wind driven (Air Associates G-6 or G-12)	8 lb. (+9)	8 lb. (+9)
Interior 1	<u>Equipment</u>		
105.	Wheel type control column (Dwg. 7-35)	X	X
201.	Flare installation (three 1½ min.)		23 lb. (+50)
305.	Cabin heater	2 lb. (-25)	2 lb. (-16)
322.	Stick type control column (replacing wheel)	Neglect wt. change	
		_	
	neous (not listed above)		
311.	Extra Door	2 lb. (+21)	2 lb. (+21)
316.	Anchor and rope	7 lb. (+2)	7 lb. (+2)
324.	Steps (two)	Neglect weight	Neglect weight